PATENT COOPERATION TREATY

PCT

TRANSLATION INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or a	gent's file referer	nce							
P04-113		FOR FURTHER ACTION		See Form PCT/IPEA/416					
International application No.			International filing date (day/month/year)		Priority date (day/month/year)				
PCT/JP2004/014781 30			30.09.20	04	10.10.2003				
C07C25	tent Classificatio		onal classification an	d IPC	•				
Applicant TOYO K	ASEI KOG	YO COMP	ANY LIMIT	ED					
l. This re under	eport is the inter Article 35 and tra	national prelim	inary examination r applicant according	eport, established by this to Article 36.	s International Preliminary Examining Authority				
2. This REPORT consists of a total of 6 sheets, including this cover sheet.									
3. This re									
а. 🗀	sent to the	applicant and t	o the International B	ureau) a total of	sheets, as follows:				
a. (sent to the applicant and to the International Bureau) a total of sheets. as follows: sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions).									
	sheets the dis	which supersessclosure in the	de earlier sheets, but international applica	which this Authority co tion as filed, as indicate	ensiders contain an amendment that goes beyond d in item 4 of Box No. I and the Supplemental				
ь. [(sent to the	International B	ureau only) a total of	(indicate type and numb	per of electronic carrier(s))				
	· ·				containing a sequence listing and/or tables				
	related thereto Section 802 of	o, in computer in the Administra	readable form only, ative Instructions).	as indicated in the Suppl	emental Box Relating to Sequence Listing (see				
4. This re	port contains ind	ications relating	g to the following ite	ms:					
\boxtimes	Box No. I	Basis of the r	eport						
	Box No. II	Priority							
	Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability								
\boxtimes	Box No. IV	•							
Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicab citations and explanations supporting such statement									
	Box No. VI	Certain docur	Certain documents cited						
	Box No. VII	Certain defect	is in the international	application					
	Box No. VIII	Certain obser	vations on the interna	ational application	;				
Date of submission	on of the demand			Date of completion of the	nis report				
			:	Date of completion of th	iis report				
Name and mailing address of the IPEA/JP				Authorized officer					
Facsimile No.				Telephone No.					

International application No.

PCT/JP2004/014781

Box No.	Basis of the report
l. Wi ind	h regard to the language, this report is based on the international application in the language in which it was filed, unless otherwise cated under this item.
	This report is based on translations from the original language into the following language which is the language of a translation furnished for the purposes of:
	international search (Rule 12.3 and 23.1(b))
	publication of the international application (Rule 12.4)
	international preliminary examination (Rule 55.2 and/or 55.3)
rece	h regard to the elements of the international application, this report is based on (replacement sheets which have been furnished to the iving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to report):
	the international application as originally filed/furnished
	the description:
	pages as originally filed/furnished
	pages* received by this Authority on
	pages* received by this Authority on
	the claims:
	nos as originally filed/furnished
	nos.* as amended (together with any statement) under Article 19
	nos.* received by this Authority on
	nos.* received by this Authority on
	the drawings:
	sheetsas originally filed/furnished
	sheets* received by this Authority on
	sheets* received by this Authority on
	a sequence listing and/or any related table(s) - see Supplemental Box Relating to Sequence Listing.
3.	· -
٠. ـــا	The amendments have resulted in the cancellation of:
	the description, pages
	the claims, nos.
	the drawings, sheets/figs
	the sequence listing (specify):
	any table(s) related to sequence listing (specify):
4.	This report has been established as if (some of) the amendments annexed to this report and listed below had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).
	the description, pages
	the claims, nos.
	the drawings, sheets/figs
	the sequence listing (specify):
	any table(s) related to sequence listing (specify):
* If iter	n 4 applies, some or all of those sheets may be marked "superseded."

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Во	x No. IV Lack of unity of invention
1.	In response to the invitation to restrict or pay additional fees the applicant has: restricted the claims. paid additional fees. paid additional fees under protest. neither restricted the claims nor paid additional fees.
2.	This Authority found that the requirement of unity of invention is not complied with and chose, according to Rule 68.1, not to invite the applicant to restrict or pay additional fees.
3.	This Authority considers that the requirement of unity of invention in accordance with Rules 13.1, 13.2 and 13.3 is: complied with. not complied with for the following reasons:
	The feature that is common to both the inventions set forth in claims 1 to 3 and the inventions set forth in claims 4 to 8 is the compound represented by general formula (2). However, compounds represented by general formula (2) are disclosed in the document JP 2003-321431 A ((Fuji Photo Film Co., Ltd.), 11 November 2003), and thus the compounds in question are not novel. Furthermore, the inventions set forth in claims 1 to 3 of the present application are not disclosed in the earliest application that serves as the basis for claiming the rights of priority (filing date: 10 October 2003), and thus the compounds that are represented by general formula (2) are not novel for the reason indicated above.
	[Refer to the Supplemental Box]
4.	Consequently, this report has been established in respect of the following parts of the international application: all parts. the parts relating to claims Nos.

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Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement 1. Statement						
Novelty (N)	Claims	1-8		YE		
	Claims			NO		
Inventive step (IS)	Claims	1-8		YE		
	Claims			NO		
Industrial applicability (IA)	Claims	1-8		YE		
	Claims	•		NO		

2. Citations and explanations (Rule 70.7)

Document 1: JP 46-10526 B1 (Toyo Jozo Co., Ltd.), 17

March 1971

Document 2: JP 9-309883 A (Kabushiki Kaisha Toyo Kasei), 02 December 1997 & EP 796852 A1

(Documents 1 and 2 are cited in the international search report.)

Document 1 (column 4, line 37 to column 5, line 6) indicates that imidoyl chlorides can be obtained by subjecting a carboxylic acid amide to the action of a chlorification agent such as POC13, and further indicates that it is preferable to obtain imidoyl chlorides by means of a method wherein a carboxylic acid amide is subjected to the action of COC12 in the presence of a tertiary amine. However, document 1 does not disclose or suggest a method wherein a carboxylic acid amide is subjected to the action of POC13 in the presence of a tertiary amine, like in the inventions that are set forth in claims 1 to 3 of the present application.

Such being the case, claims 1 to 3 are novel and involve an inventive step.

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Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

Document 2 (claims and paragraphs [0003] to [0010]) discloses a method for the production of tetrazoles by reacting a nitrile and an inorganic azide salt in the presence of an amine salt, said production method being characterized in that the reaction in question is carried out within an aromatic hydrocarbon solvent in order to resolve the problems that are associated with purification by means of prior art DMF solvents. However, document 2 does not indicate or suggest that it would be possible to employ the method in question when reacting an imidoyl chloride and an azide compound, like in the inventions that are set forth in claims 4 to 8 of the present application.

Such being the case, claims 4 to 8 are novel and involve an inventive step.

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Supplemental Box

In case the space in any of the preceding boxes is not sufficient. Continuation of:

Box IV.3

Such being the case, the only feature that is common to the abovementioned two groups of inventions is not a special technical feature; consequently, these two groups of inventions are not linked so as to form a single general inventive concept.